



Dr. Alessandro Carretta, MD, FEBNS

Fiorenzuola d'Arda (PC) - 13.05.1992
alessandro.carretta2@unibo.it

Esperienza Lavorativa

Dottorando di Ricerca

Programma Neurochirurgia dell'Ipofisi, IRCCS Istituto delle Scienze Neurologiche di Bologna, Ospedale Bellaria, Bologna

UOC Neurochirurgia, IRCCS Istituto delle Scienze Neurologiche di Bologna, Ospedale Bellaria, Bologna

Dal 11/2023 ad oggi

Medico in Formazione Specialistica In Neurochirurgia

Programma Neurochirurgia dell'Ipofisi, IRCCS Istituto delle Scienze Neurologiche di Bologna, Ospedale Bellaria, Bologna

UOC Neurochirurgia, IRCCS Istituto delle Scienze Neurologiche di Bologna, Ospedale Bellaria, Bologna

Neurochirurgia Pediatrica, Policlinico di S.Orsola, Bologna

11/2022 – 10/2023

Medico in Formazione Specialistica In Neurochirurgia

UOC Neurochirurgia, Azienda Ospedaliero – Universitaria di Parma, Parma

07/2022 – 10/2022

Research Fellow – Wissenschaftlicher Mitarbeiter

Klinik für Neurochirurgie, Universitätsspital Zürich, Zurigo (CH)

01/2022 – 06/2022

Medico in Formazione Specialistica In Neurochirurgia

UOC Neurochirurgia, Azienda Ospedaliero – Universitaria di Parma, Parma

01/2021 – 12/2021

Medico in Formazione Specialistica In Neurochirurgia

UOC Neurochirurgia, IRCCS Istituto delle Scienze Neurologiche di Bologna, Ospedale Bellaria, Bologna

11/2018 – 12/2020

Medico di Continuità Assistenziale

ATS Val Padana, Cremona

07/2018 – 10/2018

Medico Frequentatore

UOC Neurochirurgia, Azienda Ospedaliero – Universitaria di Parma, Parma

07/2017 – 03/2018

Studiante Interno

UOC Neurochirurgia – Neurotraumatologia, Azienda Ospedaliero – Universitaria di Parma, Parma

07/2016 – 07/2017

**Istruzione e
Formazione**

Dottorato di Ricerca in Scienze Biomediche e Neuromotorie

“Alma Mater Studiorum” Università di Bologna, Bologna

Dal 11/2023 ad oggi

Fellow of the European Board of Neurological Surgeons (FEBNS)

Superamento esame orale EANS (European Board Examination in Neurological Surgery Part 2)

Barcellona (E)

27.03.2025

Superamento esame scritto EANS (European Board Examination in Neurological Surgery Part 1)

Porto (P)

19.08.2023

Scuola di Specializzazione in Neurochirurgia

“Alma Mater Studiorum” Università di Bologna, Bologna

Titolo della tesi: “Approcci transcisternali alla regione temporale mediobasale: studio retrospettivo monocentrico”

Voto: 110/110 e lode

11/2018 – 10/2023

Iscrizione all’Ordine dei Medici e degli Odontoiatri della provincia di Piacenza, n. 2651

27/02/2018

Laurea Magistrale in Medicina e Chirurgia

Università degli Studi di Parma, Parma

Titolo della tesi: "Trauma cranico e spinale: evoluzione epidemiologica nell'attività di telemedicina dell'Area Vasta Emilia Nord-Occidentale"

Voto: 110/110, lode e menzione d'onore.

10/2011 – 07/2017

Progetto Erasmus +

Third Faculty of Medicine, Charles University – Univerzita Karlova, Praga (CZ)

10/2015 – 06/2016

Maturità Scientifica

Liceo Scientifico E. Mattei, Fiorenzuola d'Arda (PC)

Voto: 100/100

07/2011

Competenze Linguistiche

Italiano: madrelingua

Inglese: fluente

Tedesco: intermedio (B2 Goethe)

Spagnolo: principiante

Iscrizione a società scientifiche

Socio SINch (Società Italiana di Neurochirurgia), EANS (European Association of Neurosurgical Societies)

Competenze Scientifiche

H – index (Scopus) = 8, Citazioni (Scopus): 498.

Chirurgia ipofisaria e della base cranica

Neuroanatomia

Neurooncologia

Neurotraumatologia

Reviewer per le riviste *Frontiers*, *Neurocritical Care*, *World Neurosurgery*, *Neurosurgical Review*, *Brain Sciences*, *Operative Neurosurgery*, *Acta Neurochirurgica*, *Journal of Neuro – Oncology*.

Pubblicazioni

Stumpo V, Carretta A, Bellomo J, Padevit L, Staartjes V, Maldaner N, Coker P, Fierstra J, Weller M, Rhun EL, Czabanka M, Bozinov O, Regli L, Neidert MC, Serra C, Voglis S. Surgical tumor volume reduction in patients with brain

metastases: A systematic review and meta-analysis. *Cancer Treat Rev.* 2025 Jun 16;139:102981. doi: 10.1016/j.ctrv.2025.102981.

Zoli M, Sollini G, Giorli A, Carretta A, Magnani M, Rustici A, Conti M, Belotti LMB, Zenesini C, Asioli S, Farneti P, Pasquini E, Mazzatenta D. Lessons learned in 20 years of endoscopic endonasal surgery for pterygopalatine and infratemporal fossae lesions: analysis of a patient series and systematic review of literature. *Front Oncol.* 2025 15:1568913. doi: 10.3389/fonc.2025.1568913

Magnani M, Carretta A, Sollini G, Rustici A, Asioli S, Pasquini E, Mazzatenta D, Zoli M. Endoscopic transorbital transpalpebral approach for a sphenoid wing meningioma. *Neurosurg Focus Video.* 2025 Apr 1;12(2):V5. doi: 10.3171/2025.1.FOCVID24179.

Staatjes VE, Sarwin G, Carretta A, Zoli M, Mazzatenta D, Regli L, Konukoglu E, Serra C. AENEAS Project: Live Image-Based Navigation and Roadmap Generation in Endoscopic Neurosurgery Using Machine Vision. *Oper Neurosurg (Hagerstown).* 2025 Apr 28. doi: 10.1227/ons.0000000000001583.

Carretta A, Magnani M, Sollini G, Pasquini E, Rustici A, Neri I, Manzoli L, Ratti S, Mazzatenta D, Zoli M. Advantages and limitations of orbital rim resection in transorbital endoscopic approach: an anatomical study. *Acta Neurochir (Wien).* 2024 Dec 13;166(1):501. doi: 10.1007/s00701-024-06397-0.

Zoli M, Carretta A, Magnani M, Guaraldi F, Rustici A, Sollini G, Asioli S, Pasquini E, Mazzatenta D. Role of Endoscopic Endonasal Approach for GH-Secreting Tumors. *Front Horm Res.* 2024;55:159-181. doi: 10.1159/000539988.

Zoli M, Carretta A, Rustici A et al. Endoscopic Endonasal Approach for Clival Chordomas in Elderly Patients: Clinical Characteristics, Patient Outcome, and Recurrence Rate. *J Neurol Surg B Skull Base.* 2023 Oct 30;85(Suppl 2):e28-e37. doi: 10.1055/a-2181-2787.

NIHR Global Health Research Unit on Global Surgery; A prognostic model for use before elective surgery to estimate the risk of postoperative pulmonary complications (GSU-Pulmonary Score): a development and validation study in three international cohorts. *Lancet Digit Health.* 2024 Jul;6(7):e507-e519. doi: 10.1016/S2589-7500(24)00065-7.

Carretta A, Sollini G, Guaraldi F et al. Clival Metastases: Single-Center Retrospective Case Series and Literature Review. *J Clin Med*. 2024 Apr 27;13(9):2580. doi: 10.3390/jcm13092580.

Zoli M, Sollini G, Rustici A et al. Combined Endoscopic Transorbital and Transmaxillary-Pterygoid Approach for a Recurrent Spheno-Orbital Meningioma: 2-Dimensional Operative Video. *Oper Neurosurg (Hagerstown)*. 2024 Aug 1;27(2):258-259. doi: 10.1227/ons.0000000000001110.

Carretta, A., Voglis, S., Rössli, C. et al. Intraoperative ultrasonography in microsurgical resection of vestibular schwannomas via retrosigmoid approach: surgical technique and proof-of-concept illustrative case series. *Acta Neurochir* 166, 55 (2024). <https://doi.org/10.1007/s00701-024-05962-x>

Voglis S, Padevit L, van Niftrik CHB, Kälin V, Beyersdorf B, Da Mutton R, Stumpo V, Bellomo J, Sarnthein J, Staartjes VE, Carretta A, Krayenbühl N, Regli L, Serra C. Safety of microneurosurgical interventions for superficial and deep-seated brain metastases: single-center cohort study of 637 consecutive cases. *J Neurooncol*. 2023 Nov 10. doi: 10.1007/s11060-023-04478-1. Epub ahead of print.

Carretta A, Zoli M, Guaraldi F, Sollini G, Rustici A, Asioli S, Faustini-Fustini M, Pasquini E, Mazzatenta D. Endoscopic Endonasal Transplanum-Transtuberculum Approach for Pituitary Adenomas/PitNET: 25 Years of Experience. *Brain Sci*. 2023 Jul 24;13(7):1121. doi: 10.3390/brainsci13071121.

Carretta A, Zoli M, Martinoni M, Rustici A, Conti A, Mazzatenta D, Palandri G. Isolated entrapment of the lateral ventricle after neuroendoscopic resection of colloid cysts: single - center experience and management. *Clin Neurol Neurosurg*. 2023 Jul 13;232:107890. doi: 10.1016/j.clineuro.2023.107890. Epub ahead of print.

Iaccarino C, Carretta A, Demetriades AK, Di Minno G, Giussani C, Marcucci R, Marklund N, Mastrojanni G, Pompucci A, Stefini R, Zona G, Cividini A, Petrella G, Coluccio V, Marietta M. Management of Antithrombotic Drugs in Patients with Isolated Traumatic Brain Injury: An Intersociety Consensus Document. *Neurocrit Care*. 2023 Apr 7. doi: 10.1007/s12028-023-01715-3. Epub ahead of print.

NIHR Global Health Unit on Global Surgery; COVIDSurg Collaborative. Elective surgery system strengthening: development, measurement, and validation

of the surgical preparedness index across 1632 hospitals in 119 countries. *Lancet*. 2022 Nov 5;400(10363):1607-1617. doi: 10.1016/S0140-6736(22)01846-3. Epub 2022 Oct 31.

Carretta A, Epskamp M, Ledermann L, Staartjes VE, Neidert MC, Regli L, Stienen MN. Collagen-bound fibrin sealant (TachoSil®) for dural closure in cranial surgery: single-centre comparative cohort study and systematic review of the literature. *Neurosurg Rev*. 2022 Dec;45(6):3779-3788. doi: 10.1007/s10143-022-01886-1. Epub 2022 Nov 2.

Pontoriero A, Critelli P, Conti A, Cardali S, Angileri FF, Germanò A, Lillo S, Carretta A, Brogna A, Santacaterina A, Parisi S, Pergolizzi S. The "Combo" radiotherapy treatment for high-risk grade 2 meningiomas: dose escalation and initial safety and efficacy analysis. *J Neurooncol*. 2022 Aug 4. doi: 10.1007/s11060-022-04107-3. Epub ahead of print.

Palandri G, Carretta A, La Corte E, Giannini G, Martinoni M, Mantovani P, Albini-Riccioli L, Tonon C, Mazzatenta D, Elder BD, Conti A. Open-aqueduct LOVA, LIAS, iNPH: a comparative clinical-radiological study exploring the "grey zone" between different forms of chronic adulthood hydrocephalus. *Acta Neurochir (Wien)*. 2022 Apr 27. doi: 10.1007/s00701-022-05215-9. Epub ahead of print.

Zoli M, Della Pepa GM, Carretta A, Bongetta D, Somma T, Zoia C, Raffa G. Adjuvant radiotherapy in grossly total resected grade II atypical meningiomas. A protective effect on recurrence? A systematic review and meta-analysis. *J Neurosurg Sci*. 2021 Nov 11. doi: 10.23736/S0390-5616.21.05522-3. Epub ahead of print.

Friso F, Rucci P, Rosetti V, Carretta A, Bortolotti C, Ramponi V, Martinoni M, Palandri G, Zoli M, Badaloni F, Franceschi E, Asioli S, Fabbri VP, Rustici A, Foschini MP, Brandes AA, Mazzatenta D, Sturiale C, Conti A. Is There a Role for Surgical Resection of Multifocal Glioblastoma? A Retrospective Analysis of 100 Patients. *Neurosurgery*. 2021 Nov 18;89(6):1042-1051. doi: 10.1093/neuros/nyab345.

Palandri G, Carretta A, La Corte E, Mazzatenta D, Conti A. Longstanding overt ventriculomegaly in adults (LOVA) with patent aqueduct: surgical outcome and etiopathogenesis of a possibly distinct form of chronic hydrocephalus. *Acta Neurochir (Wien)*. 2021 Dec;163(12):3343-3352. doi: 10.1007/s00701-021-04983-0.

COVIDSurg Collaborative; GlobalSurg Collaborative. SARS-CoV-2 infection and venous thromboembolism after surgery: an international prospective cohort study. *Anaesthesia*. 2022 Jan;77(1):28-39. doi: 10.1111/anae.15563.

COVIDSurg Collaborative; GlobalSurg Collaborative. Effects of pre-operative isolation on postoperative pulmonary complications after elective surgery: an international prospective cohort study. *Anaesthesia*. 2021 Nov;76(11):1454-1464. doi: 10.1111/anae.15560.

COVIDSurg Collaborative, GlobalSurg Collaborative. SARS-CoV-2 vaccination modelling for safe surgery to save lives: data from an international prospective cohort study. *Br J Surg*. 2021 Sep 27;108(9):1056-1063. doi: 10.1093/bjs/znab101.

COVIDSurg Collaborative; GlobalSurg Collaborative. Timing of surgery following SARS-CoV-2 infection: an international prospective cohort study. *Anaesthesia*. 2021 Jun;76(6):748-758. doi: 10.1111/anae.15458.

Iaccarino C, Carretta A, Nicolosi F, Morselli C. Epidemiology of severe traumatic brain injury. *J Neurosurg Sci*. 2018 Oct;62(5):535-541. doi: 10.23736/S0390-5616.18.04532-0.

Capitoli di libri

Sarwin, G, Carretta A, Staartjes VE, Zoli M, Mazzatenta D, Regli L, Serra C, Konukoglu E (2024). Vision-Based Neurosurgical Guidance: Unsupervised Localization and Camera-Pose Prediction. In: Linguraru, MG, Dou Q, Feragen A et al. (eds) *Medical Image Computing and Computer Assisted Intervention – MICCAI 2024*. MICCAI 2024. Lecture Notes in Computer Science, vol 15006. Springer, Cham. https://doi.org/10.1007/978-3-031-72089-5_69

Sarwin, G, Carretta A, Staartjes VE, Zoli M, Mazzatenta D, Regli L, Serra C, Konukoglu E (2023). Live Image-Based Neurosurgical Guidance and Roadmap Generation Using Unsupervised Embedding. In: Frangi, A., de Bruijne, M., Wassermann, D., Navab, N. (eds) *Information Processing in Medical Imaging. IPMI 2023*. Lecture Notes in Computer Science, vol 13939. Springer, Cham. https://doi.org/10.1007/978-3-031-34048-2_9

Relazioni

Relatore, 69° Congresso Nazionale SINch – Virtual Congress, 14-15.10.20.

Relatore, eEANS 2020 Beyond Borders Virtual Congress, 19-21.10.20.

Relatore, “Hydrocephalus 2021, The Thirteen Meeting of the Hydrocephalus Society – Virtual Congress”, 10-13.09.21.

Tutor e Faculty Member, Corso “Bologna Cadaver Lab: endoscopic surgery of the paranasal sinuses and skull base” – Bologna, 12-13.12.22

Tutor e Faculty Member, Corso “Neurosurgical Basics – 6th edition” – Pavia 9-11.05.23

Relatore, 72° Congresso Nazionale SINch – Padova, 12-14.10.23

Relatore, 1st Congress of Yasargil Microneurosurgery Academy – Istanbul, 4 – 7.06.24

Relatore, 73° Congresso Nazionale SINch – Bari, 23-26.10.24

Relatore, From Research to Solutions for Gliomas. A yearlong Journey of Preclinical and Clinical Research – Bologna, 5.12.2024

Tutor e Faculty Member, Corso Tecniche di Base in Neurochirurgia “Hands – on course” – Pozzilli (IS), 23-24.05.2025

Tutor, Corso “Hands-on on Microneurosurgery and White Matter Anatomy relevant for Brain Tumors, Epilepsy and AVM: the Zurich School” – Zurigo, 16 – 18.06.25

Tutor e Faculty Member, EANS Cranial Step II Hands-On Course – Lione, 20.06.2025

Relatore, 74° Congresso Nazionale SINch – Brescia, 24 – 27.09.2025

Relatore, EANS2025 Annual Congress – Vienna, 05 – 09.10.2025

Relatore, DIBINEM CONNECT – Bologna, 04.12.2025

Tutor e Faculty Member, Endoscopic Surgery of Paranasal Sinuses and Skull Base – Bologna, 10 – 11.12.2025

Bologna, 14.12.2025

Il sottoscritto Alessandro Carretta,

consapevole che le dichiarazioni false comportano l'applicazione delle sanzioni penali previste dall'art. 76 del D.P.R. 445/2000, dichiara che le informazioni riportate in questo curriculum vitae corrispondono a verità.